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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/993,619	11/27/2001	Fumio Abe	1190-0531P	8233

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EXAMINER

COLON, GERMAN

ART UNIT PAPER NUMBER

2879

DATE MAILED: 01/30/2003

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary

Application No.

09/993,619

Applicant(s)

ABE ET AL.

Examiner

German Colón

Art Unit

2879

— The MAILING DATE of this communication appears on the cover sheet with the correspondence address —
Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).
- Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) ☐ Responsive to communication(s) filed on ____.
- 2a) ☐ This action is FINAL. 2b) ☒ This action is non-final.
- 3) ☐ Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) ☒ Claim(s) 1 and 2 is/are pending in the application.
- 4a) Of the above claim(s) ____ is/are withdrawn from consideration.
- 5) ☐ Claim(s) ____ is/are allowed.
- 6) ☒ Claim(s) 1 and 2 is/are rejected.
- 7) ☐ Claim(s) ____ is/are objected to.
- 8) ☐ Claim(s) ____ are subject to restriction and/or election requirement.

Application Papers

- 9) ☐ The specification is objected to by the Examiner.
- 10) ☐ The drawing(s) filed on ____ is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.
- Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
- 11) ☐ The proposed drawing correction filed on ____ is: a) ☐ approved b) ☐ disapproved by the Examiner.
- If approved, corrected drawings are required in reply to this Office action.
- 12) ☐ The oath or declaration is objected to by the Examiner.

Priority under 35 U.S.C. §§ 119 and 120

- 13) ☒ Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) ☒ All b) ☐ Some * c) ☐ None of:
1. ☒ Certified copies of the priority documents have been received.
2. ☐ Certified copies of the priority documents have been received in Application No. ____.
3. ☐ Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).
- * See the attached detailed Office action for a list of the certified copies not received.
- 14) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).
- a) ☐ The translation of the foreign language provisional application has been received.
- 15) ☐ Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.

Attachment(s)

- 1) ☒ Notice of References Cited (PTO-892)
- 2) ☐ Notice of Draftsperson's Patent Drawing Review (PTO-948)
- 3) ☒ Information Disclosure Statement(s) (PTO-1449) Paper No(s) ____.
- 4) ☐ Interview Summary (PTO-413) Paper No(s) ____.
- 5) ☐ Notice of Informal Patent Application (PTO-152)
- 6) ☐ Other: _____

DETAILED ACTION

Claim Rejections - 35 USC § 102

1. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

2. Claim 1 is rejected under 35 U.S.C. 102(b) as being anticipated by Sakai et al. (JP 07-029513).

Sakai discloses a deflection yoke apparatus, comprising:

a saddle-type coil bobbin having a front end portion and a rear end portion (see Fig. 1);

first guide grooves formed in an inner surface of said coil bobbin and extending across the front end portion and the rear end portion (see Fig. 2 in view of Fig. 1);

at least one second guide groove **30** formed in the front end portion;

at least one third guide groove formed in the rear end portion (see Fig. 1 and 3);

a multi-wire conductor **29** wound around said coil bobbin, the conductor being routed through said first guide grooves, said at least one second guide groove, and said at least one third guide groove;

wherein said second guide groove and third guide groove have a width in a range of 1.0 to 1.5 times a width of said conductor.

The Examiner notes that Sakai discloses the width **Wa** and **Wc** of the second and third grooves being selected so as to coincide almost with the wire width **Wb**, thus, said grooves are in the claimed range.

Claim Rejections - 35 USC § 103

3. The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

4. Claim 2 is rejected under 35 U.S.C. 103(a) as being unpatentable over Sakai (JP 07-029513) in view of Osinga et al (US 4,484,166).

Sakai discloses the claimed invention but is silent regarding the limitation of “said at least one second guide groove is one of a plurality of second guide grooves aligned in parallel and said at least one third guide groove is one of a plurality of third guide grooves aligned in parallel”.

However, in the same field of endeavor, Osinga discloses a deflection yoke with a plurality of guide grooves aligned in parallel with the purpose of allowing the adjustment of the length of the coils of the two deflection coil systems independently of each other at the values desired for a given deflection unit-display tube combination, which is important for realizing automatic convergence (see Col. 4, lines 64-68, and Col. 5, lines 1-2). Thus, it would have been obvious to one of ordinary skill in the art at the time the invention was made to provide a plurality of grooves aligned in parallel in order to allow the adjustment of the length of the coils of the two deflection coil systems independently of each other at the values desired for a given deflection unit-display tube combination, which is important for realizing automatic convergence.

Prior Art of Record

The prior art made of record and not relied upon is considered pertinent to applicant's disclosure:

Ikeuchi, in U.S. Patent No. 5,412,362 (and US 5,446,432) discloses a deflection yoke comprising grooves which width is equal or almost equal to the width of a multi-wire coil.

Aoki, in U.S. Patent No. 5,714,921, discloses a deflection yoke comprising a plurality of grooves aligned in parallel (see Figs. 2 and 3).

Murata, in U.S. Patent No. 5,828,278, discloses a deflection yoke with grooves that reduce the wrong winding of coils, thus improving picture distortion and misconvergence.

Contact Information


Any inquiry concerning this communication or earlier communications from the examiner should be directed to German Colón whose telephone number is 703-305-5987. The examiner can normally be reached on Monday thru Friday, from 8:30 to 5:00.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Nimesh Patel can be reached on 703-305-4794. The fax phone numbers for the organization where this application or proceeding is assigned are 703-308-7382 for regular communications and 703-308-7382 for After Final communications.

Any inquiry of a general nature or relating to the status of this application or proceeding should be directed to the receptionist whose telephone number is 703-308-0956.


gc

January 23, 2003


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